

Cancel Claims 3-12.

Claim 13 (first amendment). [The system of claim 1 characterized in that] In a system utilizing a fine grinding wheel, the wheel having a fine grinding surface with a radial extent to an outside diameter,

the improvement of a dressing wheel system, the dressing wheel system including dressing material, said dressing material having a radial extent less than the radial extent of the fine grinding surface, means to bring said dressing material and the radial extent of the fine grinding surface into physical contact,

and movement means to move said dressing material and the fine grinding surface relative to one another to dress the fine grinding surface [is dressed] to a convex shape.

Claim 14. The system of claim 13 characterized in that said convex shape includes a taper.

Claim 15. The system of claim 14 characterized in that said convex shape includes at least one step.

Claim 16. The system of claim 13 characterized in that said convex shape is a curved shape.

Cancel Claims 17-23.

Claim 24 (first amendment). [The system of claim 17 characterized in that] In a system utilizing a fine grinding

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dressings material and the radial extent of the fine grinding surface into physical contact,

movement means to move said dressings material and the fine grinding surface relative to one another to provide a convex shape to the fine grinding surface,

said movement means utilizing at least part of the production carrier assembly and the pinion drive, and said convex shape is a curved shape.

Cancel Claim 27.

Claim 28. In a system utilizing a grinding wheel, the improvement of a dresser and movement means to move said dresser in respect to the grinding wheel.

Claim 29. A method for dressing a fine grinding wheel, the wheel having a fine grinding surface with a radial extent to an outside diameter, method comprising bringing dressings material and the outside diameter of the fine grinding surface into physical contact with said dressings material having a radial extent less than the radial extent of the fine grinding surface,

and moving said dressings material and the fine grinding surface relative to one another to provide a flat to convex shape to the fine grinding surface.

Add new claims 30-41.

Claim 30. In a system utilizing a fine grinding wheel, the wheel having a fine grinding surface with an outer extent neighboring an outside circumference, the improvement of the outer 20-40% of the outer extent of the fine grinding wheel having a convex shape.

Claim 31. The system of claim 30 characterized in that the fine grinding wheel is used in a system having a production assembly and the outer 20-40% of the outer extent of the grinding wheel is dressed to said convex shape utilizing at least part of the production assembly.

Claim 32. The system of claim 31 characterized in that the fine grinding wheel is dressed by differential movement means and said differential movement means including at least part of the production assembly

Claim 33. The system of claim 32 characterized in
that said differential movement means includes planet gears.

Claim 34. The system of claim 33 wherein the system includes a production assembly having a pinion drive gear and characterized by said differential movement means of said dressing wheel system utilizes the pinion drive gear.

Claim 35. The system of claim 34 wherein the pinion drive has a gear with a diameter and characterized in that said differential movement means includes an intermediate pinion

